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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/870,442	05/31/2001	Bomi M. Bilimoria	07990.0023	1219	
22852	7590 10/25/2002	•			
FINNEGAN, HENDERSON, FARABOW, GARRETT &			EXAMINER		
DUNNER LLI		LOVERING, RICHARD D			
1300 I STREE	•				
WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER	
			1712	<u> </u>	
			DATE MAILED: 10/25/2002	J	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No. 09/870, 442	Applicant(s)	LIMORIA		
Office Action Summary	Examiner LOVER	ING	Group Art Unit		
—The MAILING DATE of this communication appears	on the cover sheet b	eneath the co	orrespondence a	ddress	
Period for Response					
A SHORTENED STATUTORY PERIOD FOR RESPONSE IS SET MAILING DATE OF THIS COMMUNICATION.	TO EXPIRE	3_monti	H(S) FROM THE		
 Extensions of time may be available under the provisions of 37 CFR 1.13 from the mailing date of this communication. If the period for response specified above is less than thirty (30) days, a relative to response is specified above, such period shall, by defaults. Failure to respond within the set or extended period for response will, by 	esponse within the statuto , expire SIX (6) MONTHS	ry minimum of the	nirty (30) days will be date of this commur	considered timely.	
Status					
Responsive to communication(s) filed on AVG 22.5	002				
☐ This action is FINAL.					
☐ Since this application is in condition for allowance except for accordance with the practice under Ex parte Quayle, 1935 C			the merits is clo	sed in	
Disp sition of Claims					
X Claim(s) - 6 AND 8-43	is/are p	_ is/are pending in the application.			
Of the above claim(s)	is/are v	is/are withdrawn from consideration.			
Chairra(a)	is/are a	allowed.			
\bigcirc Claim(s) $1-6$, $8-11$, $13-19$, 22 , $32-3$ \bigcirc Claim(s) 12 , 20 , 21 , $23-31$ AND 3	35 AND 38-	43 _{is/are r}	ejected.		
X Claim(s) 12, 20, 21, 23-31 AND 3	is/are	is/are objected to.			
•		- are subject to restriction or election			
□ Claim(s)		require	•	or election	
Application Papers					
☐ See the attached Notice of Draftsperson's Patent Drawing R	eview, PTO-948.				
☐ The proposed drawing correction, filed on		☐ disapproved	i.		
☐ The drawing(s) filed on is/are objected to by the Examiner.					
☐ The specification is objected to by the Examiner.				•	
☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. § 119 (a)-(d)					
 □ Acknowledgment is made of a claim for foreign priority unde □ All □ Some* □ None of the CERTIFIED copies of the □ received. □ received in Application No. (Series Code/Serial Number) 	priority documents ha	ve been			
☐ received in this national stage application from the Interna					
*Certified copies not received:					
Attachment(s)					
	\ 4	terview Summ	nany PTO-413		
			nal Patent Applica	ion PTO-152	
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948			iai i atent Applica		
	cti n Summary				

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- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- Claims 1,6, 8-11, 13, 17, 32, 37-39 and 41-43 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Nakazawa et al. 4,622,166 of record. The instantly-claimed method for improving the shear rheology of a fluid particulate suspension and resulting product are anticipated by Nakazawa et al. (esp. Example 7), or are at least clearly within the purview of Nakazawa et al., and thus would have been obvious therefrom to one having ordinary skill in the art at the time applicant's invention was made. The (colloid mill) used in patentees' Example 7 is known to be of the rotor-stator type. Addressing the 103 aspects of this ground of rejection: As to claims 4 and 6 herein, Nakazawa et al.'s disclosure of the use of the watersoluble acrylic resins as dispersants (column 8, lines 39-51, esp. line 51) renders the use of Na polyacrylate prima facie obvious. As to claim 11 herein, the use of a Kady mill instead of a colloid mill in Example 7 of Nakazawa et al. is rendered prima facie obvious by patentees' disclosure of their interchangeability in column 9, lines 28-37. As to claim 32 herein, zeolites are notoriously old as pigments, although Nakazawa et al. do not specifically disclose this.

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- fully considered but they are not deemed to be persuasive. As stated previously, the colloid mill of Example 7 of Nakazawa et al. is known to be of the rotor-stator type. As to claim 11 herein, the only claim requiring a Kady mill, Nakazawa et al. (column 9, lines 28-37) disclose the interchangeability of a Kady mill with a colloid mill of Example 7, and when equivalents are interchangeable for a desired function, an express suggestion of the desirability of the substitution is not needed to render such substitution obvious. See In re Siebentritt, 152 USPQ 618.

 Nakazawa et al. (column 2, lines 42-56; and paragraph bridging columns 4 and 5) teach that their suspensions have low viscosity which one skilled in the art would expect to apply to both low shear and high shear rheology.
- 4. Claims 22 and 43 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 22 and 43 recite Markush groups which are not considered proper for the reasons that they are indefinite as to scope and incomplete as to their memberships in not reciting -- the group consisting of -- after "chosen from".

5. The indicated allowability of claims 14-16, 18 and 5 33-35 is withdrawn in view of the newly discovered reference(s)

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to Millman et al. 3,106,476 and Freeman et al. 6,402,824. Rejections based on the newly cited reference(s) follow.

- e. Claims 1,5, 8-11, 13, 16-18, 32, 33, 38, 41 and 42 are rejected under 35 U.S.C. § 102(b) as being clearly anticipated by Millman et al. esp. Examples 2-5. When her broshfield + Hayon
- 7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 8. Claims 1-6, 8-10, 13-19, 32, 34, 35 and 39-42 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Freeman et al. 6,402,824 esp. Examples II and III, with reference to Table 4 which reports a pH of 9.1-9.3.
- 9. Claims 33 and 38 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Freeman et al. above. The especially pertinent portions of Freeman et al. are pointed out in the preceding paragraph. While Freeman et al. may not use kaolin clay or TiO₂ in their Examples II and III, it would have been obvious to one skilled in the art at the time applicant's

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invention was made to do so in combination with their precipitated calcium carbonate to prepare a suspension useful in coating paper in view of patentees' suggestion to do this in column 12, lines 52-57.

- 10. Claims 12, 20, 21 and 23-31, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 11. Claim 22 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. § 112 set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 12. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record doesn't disclose or fairly suggest the embodiments of applicant's and 36 method covered by claims 12, 20 and $21-31_{\Lambda}$ herein.
- 13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Lovering whose telephone number is (703) 308-0443. The examiner can normally be reached on Mon.-Fri. from 7:30 A.M. to 4:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Dawson, can be reached on (703) 308-2340. The fax phone number for this Group is (703) 872-9310.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0661.

R. Lovering:cdc October 24, 2002

> RICHARD D. LOVERING O PRIMARY EXAMINER GROUP 1200 1700